

RECOVERY FROM FAILURES WITHIN DATA PROCESSING SYSTEMS

ABSTRACT

[0092] Provided are methods, data processing systems, recovery components and computer programs for recovering from storage failures affecting data repositories. At least
5 a part of the recovery processing is performed while the data repositories are able to receive new data and to allow retrieval of such new data. Although new data items may be received into the repository and retrieved therefrom during recovery processing, updates to the data repository which were performed before the failure and which are then restored to the repository by the recovery processing are restored within a recovery unit of work and are
10 inaccessible to processes other than the recovery process until successful completion of the recovery unit of work. The recovery processing ensures that the recovered repository is consistent with the state of the repository at the time of the failure, but is available for addition and retrieval of new data items before completion of the recovery processing.